absa

Corporate and Investment Banking

CIB Digital Tech – Front End Assessment

TIME FOR THIS ASSESSMENT: 4 HOURS

You are writing a small part of a banking system for Acme Bank:

- Acme bank runs only 2 types of accounts, a **Savings** and **Current** account.
- Most of the behaviour in these 2 types of accounts is very similar
- For the purpose of this exercise, we will not look at all the functionality, we will only implement the **"withdraw"** and **"balance".**

Savings Account:
A savings account must have a minimum balance of greater than 0 to perform a **withdraw**

Current Account:
A **current** account can have an **overdraft** limit (the maximum overdraft limit allowed on a **current** account by Acme bank is **R500.00**
This means that a **current** account can have both **positive** and **negative** for **withdraw**.

Implementation guidelines:
Your job is to write a basic front-end implementation of **withdraw** and **balance**. The code needs to work correct at a basic level. It does not have to be 100% perfect in terms of catering for live environment.
Please feel free to comment areas that you may implement in more detail in a live environment.

Languages:

- Javascript
- HTML5
- Typescript (optional)
- ESNext (optional)
- CSS / SASS (optional)

Javascript Frameworks (choose at least one)

- Angular 4+
- React
- Vue

It is completely acceptable to work in any other framework you feel comfortable with.

CSS frameworks (optional)

- Bootstrap
- Foundation
- Material

Business Rules

- One cannot withdraw more than the balance on **savings** accounts
- The maximum **overdraft** limit allowed on **current** account is R500
- Display ***alert('Success')*** on **withdraw** button **click**
- Display **inactive withdraw button** e.g. **saving** account equals -R20.00
- Calculate the **balance** for all accounts

General

- Are all the requirements set above met?
- Can the project run e.g. **npm run**?
- Is the page working without any JS errors?

Data source:

Account List (GET) ***http://localhost:8080/api/accounts***

You will be handed a node server with the assessment which you will need to start the API server.

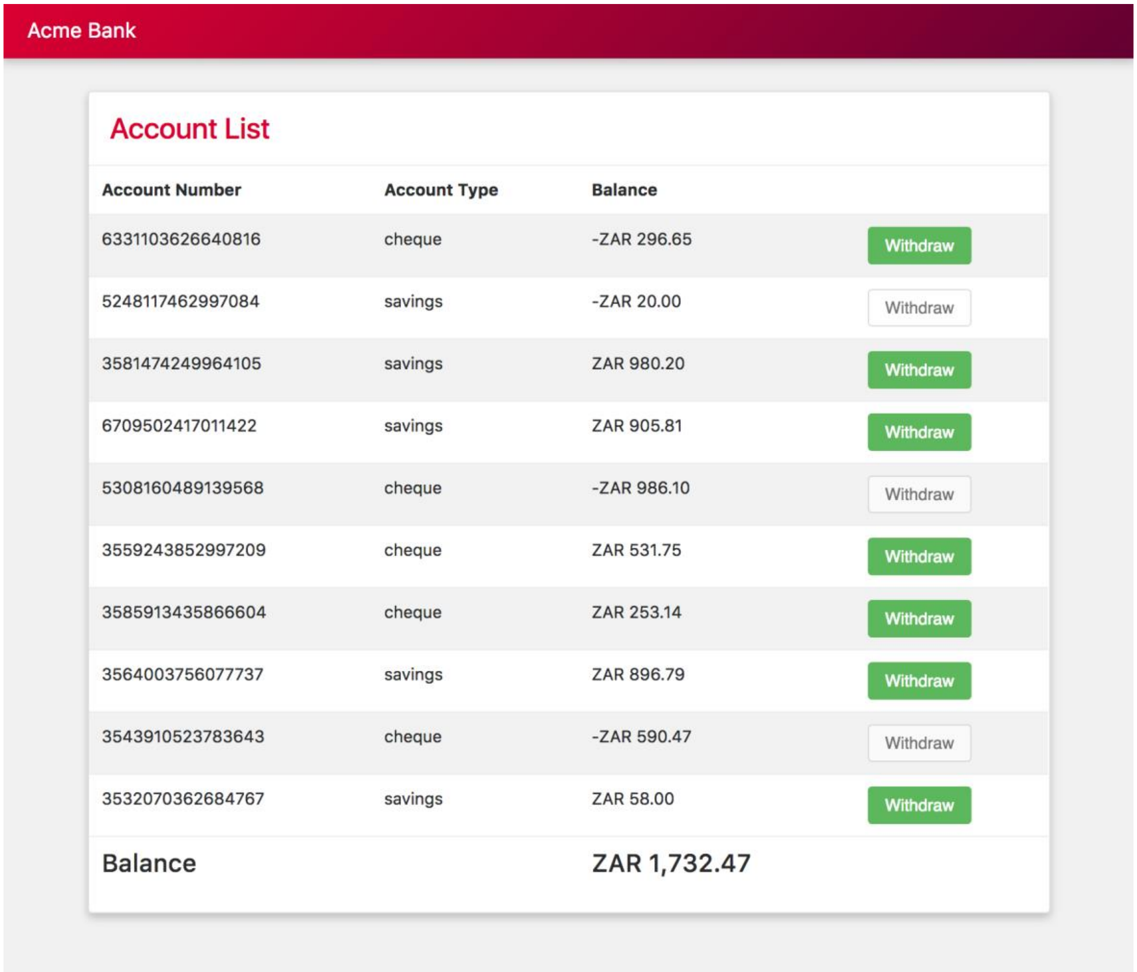
Download API server: ***https://github.com/cibfrontend/mock-api-server***

Example of JSON

```
[
{
"account_number": "6331103626640816",
"account_type": "cheque",
"balance": "-296.65"
},
{
"account_number": "5248117462997084",
"account_type": "savings",
"balance": "-20.00"
}
 ]
```

Use Case:

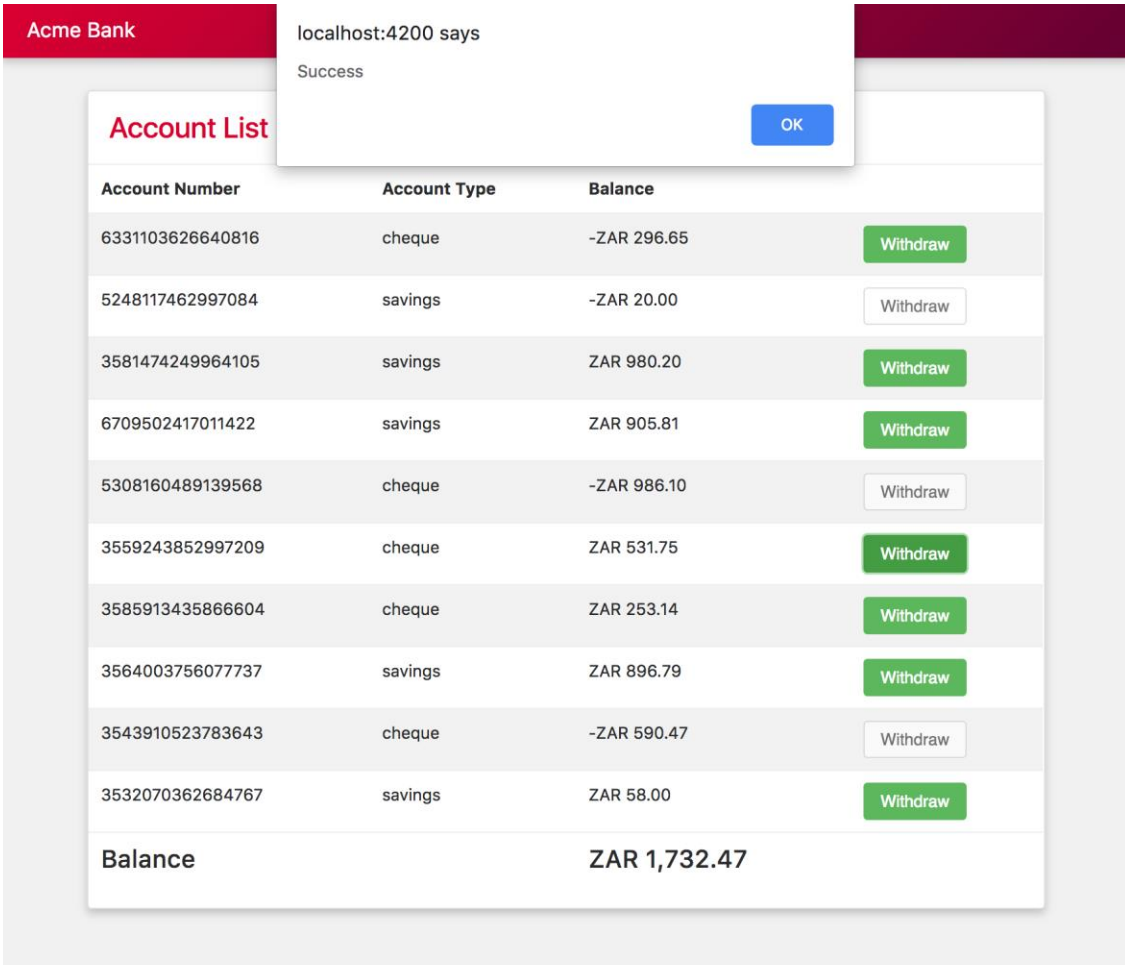
The wireframes below act as a guideline, it is entirely up to you to interpret this spec in any way you see fit



Acme Bank

Account List

Account Number	Account Type	Balance	
6331103626640816	cheque	-ZAR 296.65	Withdraw
5248117462997084	savings	-ZAR 20.00	Withdraw
3581474249964105	savings	ZAR 980.20	Withdraw
6709502417011422	savings	ZAR 905.81	Withdraw
5308160489139568	cheque	-ZAR 986.10	Withdraw
3559243852997209	cheque	ZAR 531.75	Withdraw
3585913435866604	cheque	ZAR 253.14	Withdraw
3564003756077737	savings	ZAR 896.79	Withdraw
3543910523783643	cheque	-ZAR 590.47	Withdraw
3532070362684767	savings	ZAR 58.00	Withdraw
Balance		**ZAR 1,732.47**	



Acme Bank

localhost:4200 says

Success

Account List

Account Number	Account Type	Balance	
6331103626640816	cheque	-ZAR 296.65	Withdraw
5248117462997084	savings	-ZAR 20.00	Withdraw
3581474249964105	savings	ZAR 980.20	Withdraw
6709502417011422	savings	ZAR 905.81	Withdraw
5308160489139568	cheque	-ZAR 986.10	Withdraw
3559243852997209	cheque	ZAR 531.75	Withdraw
3585913435866604	cheque	ZAR 253.14	Withdraw
3564003756077737	savings	ZAR 896.79	Withdraw
3543910523783643	cheque	-ZAR 590.47	Withdraw
3532070362684767	savings	ZAR 58.00	Withdraw
Balance		**ZAR 1,732.47**	

Kindly share the link with your completed assessment with us within 3 working days upon receiving the assessment.